

Abstract of the Disclosure:

The two housing parts are used as springing means which are mounted behind each other, thereby extending the full spring path. Despite the soft springs obtained by the housing, the individual housing parts can be manufactured from a stable material so that they remain dimensionally stable over a long-term period even when subjected to heavy stress by virtue of the fact that they are arranged between a vehicle seat and the chassis of the vehicle, thereby meeting the high quality standards required by the vehicle industry. Complex successive positioning of the springs inside the housing is avoided. As a result, it is possible to produce a force measuring device which is particularly compact, stable and economical. A coil with a core is used as an inductive deflection sensor.